

April 22, 2016

MEMORANDUM FOR: Distribution Email

FROM: Christine Caruso Magee  
Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades for  
CPC, OPC, and WPC - corrected

**Climate Prediction Center**

The following accelerated items were implemented this past week:

None

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The following will be implemented the week of April 25, 2016:

RFC #634 – CPC generates 5 and 7 day avg SST grids. The input dataset from NCO DataFlow was late one day in early April, resulting in a script failure. To mitigate this problem, the time this process runs is being changed to allow more time for the upstream data to be available. This requires an edit to a date command in the driver script, and a time change in the crontab. To be implemented on April 28 at 1200Z.

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The following RFCs are in progress or have been delayed:

RFC #623 – VWT v2.0 - The Java front-end of CPC's VWT (Verification Web Tool) has been removed. The backend servlet is now called by an AJAX request, and the response is plotted using a Javascript plotting package. This will eliminate all the issues end-users are having with getting the applet to load and run. Was to be implemented on April 11 at 1400Z; additional work needed to be done so this implementation date is now TBD.

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The following NCO RFCs to be implemented the week of April 25, 2016 may affect CPC:

RFC #1848 - Limit the use of cron on operational CPC CF systems to operational accounts only. CPC has requested this to prevent jobs from being set up to run for test accounts on operational systems. Was to be implemented on April 13 at 1400Z; postponed due to other work and should be implemented sometime the week of April 25.

RFC #1875 – cpci v1.0.3 – This is the initial implementation into WCOSS production for this application which had been run in a quasi-prod status at CPC. This application creates gif images of model output for the GFS, GDAS, and GEFS models and posts it to a CPC website for international users To be implemented on April 26 at 1200Z.

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The following NCO RFCs are in progress and may affect CPC:

RFC #1756 - NetCDF4-Python v4-1.2.1 - IBM will install the Python NetCDF4 software on Luna and Surge in /gpfs/hps/usrx/local/prod. This software reads and writes NetCDF files. Implementation began on March 7 at 1600Z; was to be completed by March 21 but IBM has found they need to install HDF5 and NetCDF first on the Crays in order to properly install this software. Ongoing issues have caused this implementation's completion date to be changed to TBD.

RFC #1864 – WCOSS – Work will be done on the Crays to add 2 new service blades containing 2 nodes each for DVS/GPFS services. There will be a 7 hour outage on April 27 followed by a 3 hour outage on May 3 to continue the work on the development Cray (Surge). The same work will be done on Luna after the next production switch on May 11. This work should be completed by May 31. Implementation to begin on April 27 at 1300Z. This work was delayed due to hardware issues on Surge that occurred during the first attempt at implementing these changes.

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**Ocean Prediction Center**

The following accelerated items were implemented this past week:

None

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The following will be implemented the week of April 25, 2016:

RFC #630 – opc\_woc\_mirrors\_monitor.pl v2016.04.25 - Disable the crontab that monitors the WOC mirror web farms. OPC will be hosting its website directly from NCWCP infrastructure beginning April 25, 2016. To be implemented on April 25 at 1130Z.

RFC #631 - .cshrc, send\_to\_TOC\_ftps.pl, test\_TOC\_ftp.pl v2016.04.25 - Update files to remove the environmental variable \$HOSTIP. It is no longer needed, and OPC's method for discovering its value does not work in RHEL7. To be implemented on April 25 at 1130Z.

RFC #632 – patch\_reminder.pl v2016.04.25 - Update the IDP/Compute Farm patch reminder script to include the kernel information in the status check and to update email addresses for weekly notifications. To be implemented on April 25 at 1130Z.

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The following RFCs are in progress:

None

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The following NCO RFCs to be implemented the week of April 25, 2016 may affect OPC:

None

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The following NCO RFCs are in progress and may affect OPC:

RFC #1864 – WCOSS – Work will be done on the Crays to add 2 new service blades containing 2 nodes each for DVS/GPFS services. There will be a 7 hour outage on April 27 followed by a 3 hour outage on May 3 to continue the work on the development Cray (Surge). The same work will be done on Luna after the next production switch on May 11. This work should be completed by May 31. Implementation to begin on April 27 at 1300Z. This work was delayed due to hardware issues on Surge that occurred during the first attempt at implementing these changes.

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The following NCO RFCs, which may affect OPC, were approved with an implementation date TBD:

RFC #1357 – RTOFS global v1.1.0 – Major upgrade of the Global RTOFS model. See the TIN at: <http://www.nws.noaa.gov/os/notification/tin15-36global-rtofsaaa.htm> for details. This was advertised as having an October 6 implementation date but this implementation is being postponed due to a delay in the Navy's HYCOM model upgrade. Once the HYCOM upgrade is implemented, the Global RTOFS will be scheduled for implementation. The Navy hopes to upgrade HYCOM in FY16Q3. Notification will be given in advance so users may prepare for any changes which may affect them. This upgrade of the Global RTOFS was approved by the NCEP Director.

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### **Weather Prediction Center**

The following accelerated items were implemented this past week:

RFC #629 – The directory paths where ensemble data is stored and read by the Day 4-7 QPF breakout script needed to be changed. This was a bug lingering from adding the downscaled QPF last month. Implemented on April 21 at 1500Z.

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The following will be implemented the week of April 25, 2016:

RFC #633 - Modify the listing of NAEFS entries in NMAP to only include the mean and spread for the 1 degree, CONUS (2.5km), and Alaska (3km) grids (both para and oper). This will remove the mode and 10/50/90 percentile entries. Add entries for NAEFS anomalies (para and oper) and modify/create restore files as needed. To be implemented on April 25 at 1500Z.

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The following RFCs are in progress:

None

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The following NCO RFCs to be implemented the week of April 25, 2016 may affect WPC:

None

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The following NCO RFCs are in progress and may affect WPC:

None

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Please note that security-related RFCs are never listed in the RFC memo.

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---- OPERATIONAL ANNOUNCEMENTS ----

1. The CPC/OPC/WPC Configuration Management documents are available at <https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/>.

Please review these documents if you have questions prior to submitting changes for CPC/OPC/WPC configurable items.

2. Users who wish to view their network utilization via the Scrutinizer appliance may request access from NCO/IWSB. Please send an account request to the NCWCP Helpdesk at [NCWCP.helpdesk@noaa.gov](mailto:NCWCP.helpdesk@noaa.gov).